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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-06** **Date: 30-12-17**

Sample ID No : 2017-12-26-06/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-12-26-06** **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer's Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-12-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	144	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	168	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	179	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	187	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	157	919	91.9	8.1	0-10	0-10	0-10	0-15
8	Pan	81	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-26-06** **Date: 30-12-17**

Sample ID No : 2017-12-26-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.19	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE
Asst. Executive engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-26-06** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalasandra in Ward No.04
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.
Customer's Reference	:	EE(Project)/YnkZone/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-06/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	531	642	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.611	549	659	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	557	672	20.0%	Satisfactory	Satisfactory

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-01-05** **Date: 05-01-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalasandra in Ward No.04

Agency : Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.

Customer's Reference : EE(Project)/YnkZone/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Sample ID No : 2018-01-01-05/01

Sample Type /Size : 10Cm Thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.18	100.51	1.385	4438	89.5	20.2	18.8	23.4
2	Cover Slab-2	75.22	100.52	1.342	4443	82.7	18.6	17.3	21.6
3	Cover Slab-3	75.23	100.49	1.385	4444	85.3	19.2	17.9	22.3

AE read

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-01-05** **Date: 05-01-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalasandra in Ward No.04

Agency : Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyara balaga, Mahalakshmipura, Banglore-560086.

Customer's Reference : EE(Project)/YnkZone/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Sample ID No : 2018-01-01-05/01

Sample Type /Size : 25Cm Thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.48	250.49	2.747	17781	348.5	19.6	18.2	22.8
2	Cover Slab-2	150.52	250.51	2.748	17791	332.7	18.7	17.4	21.7
3	Cover Slab-3	150.49	250.53	2.795	17784	343.9	19.3	18.0	22.5

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